



ALPHA DESIGN  
TECHNOLOGIES PVT LTD

# N/CROS



## N/CROS

### Compass Laser Rangefinder Binocular

N/CROS is a compact, lightweight image intensifier-based night vision binocular capable of measuring range to targets from 30 – 2000m. Incorporating an electronic digital compass and inclinometer, this eye-safe device displays range, azimuth, and elevation to the user, and transfers target data to external C<sup>2</sup> systems.

Using its optional quick-mount ORYOM Day Channel, N/CROS can be used to support daytime operations alongside its diverse night functionality using the same controls.

- Coordinate display in 3D UTM format
- Ideal for infantry units, special forces, forward observers, aircraft fire support and reconnaissance patrols.

### ***NETWORKING THE INFANTRY***

- Integrated GPS
- Optional 5.5° FOV day channel
- Optional Class 3b IR laser pointer
- Ruggedized metal enclosure
- High survivability
- Hand-held or tripod-mounted



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### Technical Characteristics

#### Optics & Sensors

Image Intensifier	18mm
Magnification	X3
Field of View	13°
Diopter Adjustment	-6 to +2
IPD	54 to 72 mm
Highlight Sensor	Automatic shutdown of tube at high ambient light levels
Resolution (System)	3.3 lp/mrad (with tube of 51 lp/mm)
Gain (System)	1800 lumen/lumen (min)

#### Laser Rangefinder

Measurement Range	30 to 2,000m
Accuracy	2m@ranges<200m; 3m at ranges of 200-500m; 5m@ranges>500m
Measurement Time	<1 sec
Eye Safety	Class 1 – Nominal Ocular Hazardous Distance for ANSI Z136.1-1993 and BS 60825-1-1994
Laser Type	GaAs Laser Diode
Laser Wavelength	905 nm

#### GPS

Antenna	Built-in
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Optional ORYOM Day Channel

#### ORYOM Day Channel (optional)

Magnification	x3
Field of View (FOV)	5.5°
Eye Relief	35mm
Exit Pupil	8mm

#### Laser Pointer (Optional)

Type	15 mW max/0.5 mrad (830 nm) flasing at 5 pps/Class 3b
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#### Electrical

Power source	Six 1.5V "AA" size battery (alkaline)
Operating Time	36 hours min.

#### Physical

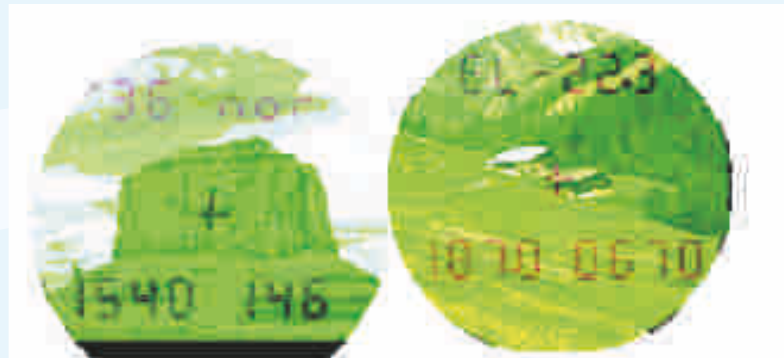
Dimensions	280 x 235 x 135 mm (LxWxH)
Weight	1.7 kg

#### Communication

Interface	Serial Port (built-in), RS-232
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#### Environmental

Complies with	MIL-STD-810
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N/CROS Displays

Further enquiries may be addressed to:

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